Amendments to the Claims

This listing of claims will replace all prior versions, and listings, of claims in the application. Please amend Claims 1, 17, 20, and 41-46 as indicated in the following Listing of Claims.

Listing of Claims

- 1. (Currently amended) A composition formed by combining components comprising:
 - a) a polyolefin;
- b) at least one high activity phosphite comprising an arylalkyl diphosphite having a formula,

$$R_{3}$$
 R_{4}
 R_{5}
 R_{1}
 CH_{2}
 CH_{2}
 CH_{2}
 CH_{2}
 CH_{2}
 CH_{2}
 CH_{3}
 R_{10}
 R_{9}
 R_{10}

wherein R₁, R₂, R₃, R₄, R₅, R₆, R₇, R₈, R₉, and R₁₀ can be the same or different and are selected from hydrogen or straight-chained, or branched, cyclic, or acyclic, aromatic, or aliphatic, and mixed aliphatic, aromatic, and/or or cycloaliphatic organic radicals having from about 1 to about 20 carbon atoms per radical;

c) at least one hydrolytically stable phosphite comprising a triarylphosphite having a formula:

$$\begin{bmatrix} R_2 & R_1 \\ R_3 & R_5 \end{bmatrix}_3$$

wherein R_1 , R_2 , R_3 , R_4 , and R_5 , are selected from hydrogen or straight-chained, or branched, cyclic, or acyclic, aromatic, or aliphatic, and mixed aliphatic, aromatic, and/or

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or cycloaliphatic organic radicals having from about 1 to about 20 carbon atoms per radical;

- d) optionally, a primary polymer stabilizer;
- e) optionally, an acid scavenger;
- f) an inorganic base, Lewis base, or aliphatic amine;
- g) optionally, water; and
- h) optionally, a hindered amine,

wherein the at least one high activity phosphite and the at least one hydrolytically stable phosphite are present in the composition in respective amounts sufficient to raise the Phillips Color Number (PE #) with processing to a value greater than the PE # of a composition formed by combining like amounts of the polyolefin, the high activity phosphate, a hindered phenol, water, and an acid scavenger.

- 2. (Original) The composition according to Claim 1, further comprising an ultraviolet absorber or light stabilizer.
- 3. (Original) The composition according to Claim 2, wherein the ultraviolet absorber or light stabilizer is a 2-(2'-Hydroxyphenyl)-benzotriazole; a 2-Hydroxy-benzophenone; an ester of substituted and unsubstituted benzoic acids; an acrylate; a nickel compound; a hindered amine; an oxalic acid diamide; or any mixture thereof.
- 4. (Previously presented) The composition according to Claim 3, wherein the hindered amines are bis-(2,2,6,6-tetramethylpiperidyl)-sebacate; bis-(1,2,2,6,6-pentamethylpiperidyl)-sebacate; n-butyl-3,5-di-t-butyl-4-hydroxybenzyl malonic acid bis-(1,2,2,6,6-pentamethylpiperidyl)ester; condensation product of 1-hydroxyethyl-2,2,6,6-tetramethyl-4-hydroxy-piperidine and succinic acid; condensation product of N,N'-(2,2,6,6-tetramethylpiperidyl)-hexamethylendiamine and 4-t-octylamino-2,6-dichloro-1,3,5-s-triazine; tris-(2,2,6,6-tetramethylpiperidyl)-nitrilotriacetate; tetrakis-(2,2,6,6-tetramethyl-4-piperidyl)-

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1,2,3,5-butane-tetracarbonic acid; 1,1'-(1,2-ethanediyl)-bis-(3,3,5,5-tetramethylpiperazinone); di-

(1-hydroxy-2,2,6,6-tetramethylpiperidin-4-yl)sebacate;

1-hydroxy-2,2,6,6-tetramethyl-4-

benzoxypiperidine;

1-hydroxy-2,2,6,6-tetramethyl-4(3,5-di-t-butyl-4-

hydroxyhydrocinnamoyloxy)piperidine;

N-(1-hydroxy-2,2,6,6-tetramethylpiperidin-4-yl)-ε-

caprolactam, or any mixture thereof.

5. (Original) The composition according to Claim 1, wherein the polyolefin

is a homopolymer of one mono-l-olefin having from about 2 to about 10 carbon atoms per

molecule or a copolymer of at least 2 different mono-l-olefins having about 2 to about 10 carbon

atoms per molecule.

6. (Original) The composition according to Claim 1, wherein the polyolefin

is an ethylene homopolymer.

7. (Original) The composition according to Claim 1, wherein the polyolefin

is a copolymer of ethylene and a higher alpha-olefin comonomer having from about 3 to about 16

carbon atoms per molecule.

8. (Original) The composition according to Claim 1, wherein the comonomer

is present in the polyolefin within a range of about 1 to about 20 weight percent comonomer

based on the total weight of the copolymer.

9. (Original) The composition according to Claim 1, wherein the polyolefin

is prepared in the presence of an inorganic oxide supported chromium oxide catalyst system.

10. (Original) The composition according to Claim 6, wherein the inorganic

oxide of the inorganic oxide supported chromium catalyst system is a silica-titania support.

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11. (Original) The composition according to Claim 7, wherein the polyolefin

contains from about 1 mg/kg to about 10 mg/kg, based on the mass of the neat polyolefin, titania

catalyst residue calculated as titanium.

12. (Original) The composition according to Claim 1, wherein the polyolefin

is prepared in the presence of a transition metal halide catalyst system.

13. (Original) The composition according to Claim 1, wherein the polyolefin

is prepared in the presence of a catalyst system comprising a metallocene.

14. (Original) The composition according to Claim 1, wherein R₂, R₄, R₅, R₇,

R₉, and R₁₀ in the high activity phosphite are hydrogen and R₂, R₃, R₆, and R₈ are mixed aliphatic

and aromatic organic radicals having from about 1 to about 20 carbon atoms per radical.

15. (Previously presented) The composition according to Claim 1, wherein the

high activity phosphite is bis(2,4-dicumylphenyl)pentaerythritol diphosphite.

16. (Previously presented) The composition according to Claim 1, wherein the

high activity phosphite is bis(2,4-di-tert-butylphenyl)pentaerythritol diphosphite.

17. (Currently amended) The composition according to Claim 1, wherein R₂,

R₄, R₅, R₇, R₉, and R₁₀ in the second arylalkyl diphosphite are hydrogen and R₁, R₃, R₆, and R₈

are selected from straight-chained and or branched organic radicals having from about 1 to about

20 carbon atoms per radical.

18. (Original) The composition according to Claim 1, wherein the another

arylalkyl diphosphite is bis(2,4-di-tert-butylphenyl)pentaerythritol diphosphite.

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19. (Original) The composition according to Claim 1, wherein the another

arylalkyl diphosphite is bis(2,4-dicumylphenyl)pentaerythritol diphosphite.

20. (Currently amended) The composition according to Claim 1, wherein R₂,

R₄, and R₅ in the triarylphosphite are hydrogen and R₁ and R₃ are selected from straight-chained

and or branched organic radicals having from about 1 to about 20 carbon atoms per radical.

21. (Original) The composition according to Claim 1, wherein the

triarylphosphite is tris(2,4-di-tert-butylphenyl) phosphite.

22. (Original) The composition according to Claim 1, wherein the high

activity phosphite and the hydrolytically stable phosphite are present in a total phosphite amount

within a range of about 50 mg/kg to about 20,000 mg/kg based on the mass of the neat

polyolefin.

23. (Original) The composition according to Claim 1, wherein the high

activity phosphite and the hydrolytically stable phosphite are present in a total phosphite amount

within a range of 100 mg/kg to 1,500 mg/kg based on the mass of the neat polyolefin.

24. (Original) The composition according to Claim 1, wherein the high

activity phosphite and the hydrolytically stable phosphite are present in a total phosphite amount

within a range of 100 mg/kg to 1,200 mg/kg based on the mass of the neat polyolefin.

25. (Previously presented) The composition according to Claim 1, wherein the

hydrolytically stable phosphite is present in an amount within a range of about 2% to about 90%

by weight of the total amount of the high activity phosphite and the hydrolytically stable

phosphite added to the neat polyolefin.

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26. (Original) The composition according to Claim 1, wherein the

hydrolytically stable phosphite is present in an amount within a range of about 10% to about 60%

by weight of the total amount of the high activity phosphite and the hydrolytically stable

phosphite added to the neat polyolefin.

27. (Previously presented) The composition according to Claim 1, wherein the

primary polymer stabilizer is a hindered phenol selected from monophenols, bisphenols,

thiobisphenols, polyphenols, hydroxybenzyl aromates, amides of β -(3,5-di-tert-butyl-4-

hydroxyphenyl)-propionic acid, esters of β -(3,5-di-tert-butyl-4-hydroxyphenyl)-propionic acid

with mono- or polyvalent alcohols, spiro compounds, or any mixture thereof.

28. (Previously presented) The composition according to Claim 1, wherein the

primary polymer stabilizer is a hindered phenol selected from tetrakis(methylene 3(3,5-di-t-butyl-

4-hydroxyphenyl)propionate) methane; 1,3,5-tri-(3,5-di-tert-butyl-4-hydroxybenzyl)-2,4,6-

trimethylbenzene; β-(3,5-di-tert-butyl-4hydroxyphenyl)-propionic acid-n-octadecyl ester; 2,6-di-

tert-butyl-4-methylphenol; 3,9-bis-[1,1-dimethyl-2-(3,5-di-tert-butyl-4-hydroxy-phenyl)-ethyl]-

2,4,8,10-tetraoxaspiro-[5,5]-undecane; or any mixture thereof.

29. (Original) The composition according to Claim 1, wherein the primary

polymer stabilizer is tetrakis[methylene (3,5-di-tert-butyl-4hydroxyhydrocinnamate)]methane.

30. (Original) The composition according to Claim 1, wherein the primary

polymer stabilizer is present in an amount less than about 5000 mg/kg based on the mass of the

neat polyolefin.

31. (Original) The composition according to Claim 1, wherein the primary

polymer stabilizer is present in an amount within a range of about 50 mg/kg to about 2500 mg/kg

based on the mass of the neat polyolefin.

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32. (Original) The composition according to Claim 1, wherein water is present

in an amount up to about 5000 mg/kg based on the mass of the neat polyolefin.

33. (Original) The composition matter according to Claim 1, wherein water is

present in an amount up to 1000 mg/kg based on the mass of the neat polyolefin.

34. (Original) The composition according to Claim 1, wherein the water has a

pH within a range of about 4 to about 10.

35. (Original) The composition according to Claim 1, wherein the water has a

pH within a range of about 6 to about 8.

36. (Original) The composition according to Claim 4, wherein the hindered

amine is present in an amount within a range of about 50 mg/kg to about 5000 mg/kg based on

the mass of the neat polyolefin.

37. (Original) The composition according to Claim 1, wherein the aliphatic

amine is triisopropanolamine and triisopropanolamine is present in an amount within a range of

about 0.25 mg/kg to about 100 mg/kg based on the mass of the neat polyolefin.

38. (Previously presented) A composition formed by combining components

comprising:

a) a polyolefin selected from homopolymers of one mono-l-olefin having from about

2 to about 10 carbon atoms per molecule or copolymers of at least 2 different mono-l-olefins

having about 2 to about 10 carbon atoms per molecule;

b) a high activity phosphite comprising an arylalkyl diphosphite having a formula,

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$$R_{3}$$
 R_{4}
 R_{5}
 R_{1}
 CH_{2}
 CH_{2}
 CH_{2}
 CH_{2}
 CH_{2}
 CH_{2}
 CH_{3}
 R_{10}
 R_{9}
 R_{10}
 R_{10}

wherein R₂, R₄, R₅, R₇, R₉, and R₁₀ are hydrogen and R₁, R₃, R₆, and R₈ are mixed aliphatic and aromatic organic radicals having from about 1 to about 20 carbon atoms per radical;

c) a hydrolytically stable phosphite comprising a triarylphosphite having a formula,

$$\begin{bmatrix} R_2 & R_1 \\ R_3 & R_5 \end{bmatrix}_3$$

wherein R₂, R₄, and R₅ in the triarylphosphite are hydrogen and R₁ and R₃ are selected from straight-chained or branched organic radicals having from about 1 to about 20 carbon atoms per radical, the high activity phosphite and the hydrolytically stable phosphite being present in a total phosphite amount within a range of about 50 mg/kg to about 20,000 mg/kg based on the mass of the neat polyolefin;

- d) optionally, another arylalkyl diphosphite of formula (I), wherein R₂, R₄, R₅, R₇, R₉, and R₁₀ in the another arylalkyl diphosphite are hydrogen and R₁, R₃, R₆, and R₈ are selected from straight-chained or branched organic radicals having from about 1 to about 20 carbon atoms per radical;
- e) optionally, a hindered phenol in an amount within a range of about 50 mg/kg to about 5000 mg/kg based on the mass of the neat polyolefin;
- f) optionally, water in an amount within a range of 1 mg/kg to about 5000 mg/kg based on the mass of the neat polyolefin;

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- g) optionally, a hindered amine in an amount within a range of about 50 mg/kg to about 5,000 mg/kg based on the mass of the neat polyolefin;
- h) triisopropanolamine in an amount within a range of about 0.25 mg/kg to about 100 mg/kg based on the mass of the neat polyolefin; and
- i) optionally, an acid scavenger in an amount within a range of about 1.25 mg/kg to about 500 mg/kg based on the mass of the neat polyolefin.
- 39. (Original) The composition according to Claim 38, wherein the high activity phosphite and the hydrolytically stable phosphite are present in a total phosphite amount within a range of 1 mg/kg to 1,500 mg/kg based on the mass of the neat polyolefin.
- 40. (Previously presented) The composition according to Claim 38, wherein the high activity phosphite and the hydrolytically stable phosphite are present in a total phosphite amount within a range of 1 mg/kg to 1,200 mg/kg based on the mass of the neat polyolefin.
 - 41. (Currently amended) A process comprising blending:
 - a) a polyolefin;
 - b) a high activity phosphite comprising an arylalkyl diphosphite having a formula,

$$R_3$$
 R_1 CH_2 CH_2 CH_2 CH_2 R_3 R_4 R_5 CH_2 CH_2 CH_2 CH_2 CH_3 R_4 R_5 R_6 R_7 R_8 R_8 R_9

wherein R₁, R₂, R₃, R₄, R₅, R₆, R₇, R₈, R₉, and R₁₀ can be the same or different and are selected from hydrogen or straight chained, or branched, cyclic, or acyclic, aromatic, or aliphatic, and mixed aliphatic, aromatic, or cycloaliphatic organic radicals having from about 1 to about 20 carbon atoms per radical;

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c) a hydrolytically stable phosphite comprising a triarylphosphite having a formula,

$$R_2$$
 R_1
 R_3
 R_4
 R_5

wherein R₁, R₂, R₃, R₄, and R₅ are selected from hydrogen or straight chained, or branched, cyclic, or acyclic, aromatic, or aliphatic, and mixed aliphatic, aromatic, or cycloaliphatic organic radicals having from about 1 to about 20 carbon atoms per radical;

- d) optionally, another arylalkyl diphosphite of formula (I), wherein R_1 , R_2 , R_3 , R_4 , R_5 , R_6 , R_7 , R_8 , R_9 , and R_{10} can be the same or different and are selected from hydrogen or straight-chained, or branched, cyclic, or acyclic, aromatic, or aliphatic, and mixed aliphatic, aromatic, and/or or cycloaliphatic organic radicals having from about 1 to about 20 carbon atoms per radical, which is different from the high activity phosphite;
 - e) optionally, a hindered phenol;
 - f) optionally, water;
 - g) triisopropanolamine;
 - h) optionally, an acid scavenger; and
 - i) optionally, a hindered amine.
- 42. (Currently amended) A process according to Claim 41, wherein the blending procedure is selected from mixing, pelletizing, extruding, and or mixtures thereof.
- 43. (Currently amended) A process to improve the melt stability upon recycle of a polyolefin comprising blending:
 - a) a polyolefin;
- b) a high activity phosphite comprising an arylalkyl diphosphite having a formula,

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$$R_{3}$$
 R_{1}
 C
 CH_{2}
 CH_{2}
 CH_{2}
 CH_{2}
 CH_{2}
 CH_{2}
 CH_{3}
 CH_{2}
 CH_{2}
 CH_{3}
 CH_{2}
 CH_{3}
 CH_{2}
 CH_{3}
 CH_{4}
 CH_{5}
 CH_{5}
 CH_{5}
 CH_{5}
 CH_{6}
 CH_{7}
 CH_{8}
 CH_{10}
 CH_{9}

wherein R₁, R₂, R₃, R₄, R₅, R₆, R₇, R₈, R₉, and R₁₀ can be the same or different and are selected from the group consisting of hydrogen and or straight-chained, or branched, cyclic, or acyclic, aromatic, or aliphatic, and mixed aliphatic, aromatic, and/or or cycloaliphatic organic radicals having from about 1 to about 20 carbon atoms per radical;

c) a hydrolytically stable phosphite comprising a triarylphosphite having a formula,

$$\begin{bmatrix} R_2 & R_1 \\ R_3 & R_5 \end{bmatrix}_2$$

wherein R₁, R₂, R₃, R₄, and R₅ are selected from hydrogen or straight-chained, or branched, cyclic, or acyclic, aromatic, or aliphatic, and mixed aliphatic, aromatic, or cycloaliphatic organic radicals having from about 1 to about 20 carbon atoms per radical;

- d) optionally, another arylalkyl diphosphite of formula (I), wherein R₁, R₂, R₃, R₄, R₅, R₆, R₇, R₈, R₉, and R₁₀ can be the same or different and are selected from hydrogen or straight-chained, or branched, cyclic, or acyclic, aromatic, or aliphatic, and mixed aliphatic, aromatic, or cycloaliphatic organic radicals having from about 1 to about 20 carbon atoms per radical, which is different from the high activity phosphite;
- e) optionally, a hindered amine in an amount within the range of about 50 mg/kg to about 5,000 mg/kg based on the mass of the neat polyolefin;
- f) triisopropanolamine in an amount within the range of about 0.5 mg/kg to about 50 mg/kg based on the mass of the neat polyolefin;
 - g) optionally, a hindered phenol;
 - h) optionally, water; and

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- i) optionally, an acid scavenger.
- 44. (Currently amended) An article of manufacture prepared from a polymer produced by a process comprising blending:
 - a) a polyolefin;
- b) a high activity phosphite comprising an arylalkyl diphosphite having a formula,

$$R_{3}$$
 R_{4}
 R_{5}
 R_{1}
 CH_{2}
 CH_{2}
 CH_{2}
 CH_{2}
 CH_{2}
 CH_{2}
 CH_{3}
 R_{10}
 R_{9}
 R_{10}
 R_{10}
 R_{10}

wherein R₁, R₂, R₃, R₄, R₅, R₆, R₇, R₈, R₉, and R₁₀ can be the same or different and are selected from hydrogen or straight-chained, or branched, cyclic, or acyclic, aromatic, or aliphatic, and mixed aliphatic, aromatic, or cycloaliphatic organic radicals having from about 1 to about 20 carbon atoms per radical;

c) a hydrolytically stable phosphite comprising a triarylphosphite having a formula,

$$\begin{bmatrix} R_2 & R_1 \\ R_3 & & \\ & R_5 & \\ & & \\$$

wherein R¹, R², R³, R⁴, and R⁵ are selected from hydrogen or straight-chained, or branched, cyclic, or acyclic, aromatic, or aliphatic, and mixed aliphatic, aromatic, and/or or cycloaliphatic organic radicals having from about 1 to about 20 carbon atoms per radical;

- d) optionally, a second arylalkyl diphosphite of formula (I), wherein R₁, R₂, R₃, R₄, R₅, R₆, R₇, R₈, R₉, and R₁₀ can be the same or different and are selected from hydrogen or straight-chained, or branched, cyclic, or acyclic, aromatic, or aliphatic, and mixed aliphatic, aromatic, or cycloaliphatic organic radicals having from about 1 to about 20 carbon atoms per radical, which is different from the high activity phosphite;
- e) optionally, a hindered amine in an amount within a range of about 50 mg/kg to about 5,000 mg/kg based on the mass of the neat polyolefin;
- f) triisopropanolamine in an amount within a range of about 0.25 mg/kg to about 100 mg/kg based on the mass of the neat polyolefin;
 - g) optionally, a hindered phenol;
 - h) optionally, water; and
 - i) optionally, an acid scavenger.
- 45. (Currently amended) A process to improve the Phillips color number of whiteness index of a polyolefin comprising blending:
 - a) a polyolefin;
- b) a high activity phosphite comprising an arylalkyl diphosphite having a formula,

$$R_{3}$$
 R_{4}
 R_{5}
 R_{1}
 CH_{2}
 CH_{2}
 CH_{2}
 CH_{2}
 CH_{2}
 CH_{2}
 CH_{3}
 R_{10}
 R_{9}
 R_{10}
 R_{10}

wherein R₁, R₂, R₃, R₄, R₅, R₆, R₇, R₈, R₉, and R₁₀ can be the same or different and are selected from hydrogen or straight-chained, or branched, cyclic, or acyclic, aromatic, or aliphatic, and mixed aliphatic, aromatic, or cycloaliphatic organic radicals having from about 1 to about 20 carbon atoms per radical;

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c) a hydrolytically stable phosphite comprising a triarylphosphite having a formula,

$$\begin{bmatrix} R_2 & R_1 \\ R_3 & & \\ & R_4 & R_5 \end{bmatrix}_3$$

wherein R₁, R₂, R₃, R₄, and R₅ are selected from hydrogen or straight-chained, or branched, cyclic, or acyclic, aromatic, or aliphatic, and mixed aliphatic, aromatic, or cycloaliphatic organic radicals having from about 1 to about 20 carbon atoms per radical;

- d) optionally, another arylalkyl diphosphite of formula (I), wherein R₁, R₂, R₃, R₄, R₅, R₆, R₇, R₈, R₉, and R₁₀ can be the same or different and are selected from hydrogen or straight-chained, or branched, cyclic, or acyclic, aromatic, or aliphatic, and mixed aliphatic, aromatic, or cycloaliphatic organic radicals having from about 1 to about 20 carbon atoms per radical, which is different from the high activity phosphite;
- e) optionally, a hindered amine in an amount within a range of about 50 mg/kg to about 5,000 mg/kg based on the mass of the neat polyolefin;
- f) triisopropanol amine in an amount within a range of about 0.25 mg/kg to about 100 mg/kg based on the mass of the neat polyolefin[[.]];
 - g) optionally, a hindered phenol;
 - h) optionally, water; and
 - i) optionally, an acid scavenger.
 - 46. (Currently amended) A kit comprising:
- a) at least one high activity phosphite comprising an arylalkyl diphosphite having a formula,

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$$R_{3}$$
 R_{4}
 R_{5}
 R_{1}
 CH_{2}
 CH_{2}
 CH_{2}
 CH_{2}
 CH_{2}
 CH_{2}
 CH_{3}
 R_{10}
 R_{9}
 R_{10}
 R_{10}

wherein R₁, R₂, R₃, R₄, R₅, R₆, R₇, R₈, R₉, and R₁₀ can be the same or different and are selected from hydrogen or straight-chained, or branched, cyclic, or acyclic, aromatic, or aliphatic, and mixed aliphatic, aromatic, and/or cycloaliphatic organic radicals having from about 1 to about 20 carbon atoms per radical;

b) at least one hydrolytically stable phosphite comprising a triarylphosphite having a formula:

$$\begin{bmatrix} R_2 & R_1 \\ R_3 & R_5 \end{bmatrix}_3$$

wherein R₁, R₂, R₃, R₄, and R₅, are selected from hydrogen or straight-chained, of branched, cyclic, of acyclic, aromatic, of aliphatic, and mixed aliphatic, aromatic, and/or cycloaliphatic organic radicals having from about 1 to about 20 carbon atoms per radical; and

- c) triisopropanol amine.
- 47. (Original) The kit according to Claim 46, wherein the at least one high activity phosphite and the at least one hydrolytically stable phosphite are in a mixture with one another.
- 48. (Original) The kit according to Claim 46, wherein the at least one high activity phosphite and the at least one hydrolytically stable phosphite are separate from one another.

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49. (Original) The kit according to Claim 48, wherein the at least one high

activity phosphite comprises a plurality of high activity phosphites and each such phosphite is

separate from one another.

50. (Original) The kit according to Claim 48, wherein the at least one

hydrolytically stable phosphite comprises a plurality of hydrolytically stable phosphites and each

such phosphite is separate from one another.